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10/538,909	07/10/2005	Yeun Kwon Seo	114260-014	5146
24573 7590 12/16/2008 BELL, BOYD & LLOYD, LLP P.O. Box 1135			EXAMINER	
			VO, HAI	
CHICAGO, IL 60690			ART UNIT	PAPER NUMBER
			1794	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/538,909 SEO, YEUN KWON Office Action Summary Examiner Art Unit Hai Vo 1794 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status Responsive to communication(s) filed on 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims Claim(s) is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) _____ is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. Notice of Draftsperson's Patent Drawing Review (PTO-948)

Paper No(s)/Mail Date __

3) Information Disclosure Statement(s) (PTO/SB/08)

5) Notice of Informal Patent Application

6) Other:

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 The 112 claim rejections, first paragraph and rejection of claim 34 are considered most in view of the claim cancellation.

 The rejections over Luciano et al (US 4,357,386) in view of Frank (US 5,093,967) and Schuster (US 3.664.905) are maintained.

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claim 35 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. It is unclear as to how the short fibers and the foamed material could have been made of the same material because the foam material may contain a foaming agent necessary for the void formation whereas the short fibers do not. It is suggested that the short fiber and the foamed material made from the same resin material for purpose of clarity.
- 5. The 112 claim rejections have been maintained for the reasons discussed above.

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be needlived by the manner in which the invention was made. Application/Control Number: 10/538,909

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7. Claims 32, 33 and 35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Luciano et al (US 4.357.386) in view of Frank (US 5.093.967) and Schuster (US 3,664,905). Luciano teaches a composite papermaker felt made up of a needled bottom layer of staple fibers, a base layer 12, a particle foam layer 14 and a needled top layer of staple layer 12 as shown in figure 5. The foam layer includes of discrete polyethylene foam particles (column 3, lines 40-45). The staple fibers are composed of polyolefin fibers and jute fibers (column 3, lines 55-60). The base layer can be a multilayered woven material (column 3, lines 30-33). One of the layers of the multilayered woven material reads on Applicant's fabric. All of the layers are integrated and consolidated into a single uniform fabric by needling (column 4, lines 1-10, and 20-25). Luciano does not specifically disclose the staple fibers embedded in the foam layer in a shape of a truss. However, it appears that Luciano uses the same need punching to penetrate the fibers into the foam layer as Applicant, therefore, it is not seen that the fibers could not have been embedded in the foam layer in a shape of a truss as set forth in the claims. Alternatively, truss as defined by Merriam Webster's Collegiate dictionary is "an assemblage of members (as beams) forming a rigid framework." The fibers 24 extending through the foam layer 24, intermingling to each other forming a framework with a plurality of triangles interconnected to each other (figure 2). As the simplest form of a truss is one single triangle, it is the examiner's position that the fibers 24 are embedded in the foam layer in a shape of a truss as well. Luciano does not teach that the polyolefin fiber is a

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combination of polypropylene fiber and polyethylene fiber. Frank, however, teaches the use of a needle-punched non-woven layer comprising 60-80 wt% polyethylene fibers and 20-40 wt% polypropylene fibers for increasing the adhesion bonding between the fiber layers and a substrate. Frank discloses that the polyethylene fibers are used as low melting point fibers and polypropylene fibers as reinforcing fibers. The polyethylene fibers are molten while leaving the polypropylene fibers unaffected when the material is run through an air thermal bonding oven, providing an improved adhesion strength between the fiber layer and the substrate (column 6, lines 45-65). That is reasonably pertinent to the particular problem with which the applicant was concerned. Applicant uses the fiber layer comprising the low melting point polyethylene fibers in combination with polypropylene fibers for increasing the adhesion strength between the foam and fiber layer. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to use polyolefin fibers that are a combination of polypropylene fibers and polyethylene fibers with a mixed ratio as taught by Frank motivated by the desire to provide an increased adhesion strength between the fiber layer and the foam layer.

Luciano does not teach the papermaking felt further coated with a cement layer. Schuster, however, teaches a web suitable for use as papermakers' felt comprising a plurality of fibrous batts and an adhesive coating to the surface of at least one side of the web (abstract). The adhesive layer reads on the claimed cement layer. Therefore, it would have been obvious to one having ordinary skill Art Unit: 1794

in the art at the time the invention was made to apply an adhesive layer to at least one surface of the web motivated by the desire to provide improved adhesion strength between the fibers, thereby increasing the web stability.

Luciano as modified by Frank and Schuster does not specifically disclose the processing steps as set forth in the claims. However, they are product-byprocess limitations not as yet shown to produce a patentably distinct article. It is the examiner's position that the article of Luciano/Frank/Schuster is identical to or only slightly different than the claimed article prepared by the method of the claim, because both articles are formed from the same materials, having structural similarity. Even though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or an obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process. In re Thorpe, 227 USPQ 964, 966 (Fed. Cir. 1985). The burden has been shifted to the applicant to show unobvious differences between the claimed product and the prior art product. In re Marosi, 218 USPQ 289,291 (Fed. Cir. 1983). It is noted that if the applicant intends to rely on Examples in the specification or in a submitted Declaration to show nonobviousness, the applicant should clearly state how the Examples of the present invention are commensurate in scope with the claims and how the Comparative Examples are commensurate in scope with Luciano/Frank/Schuster.

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A preamble phrase "an automobile interior material" or "a construction sheet" is generally not accorded any patentable weight where it merely recites the purpose of a process or the intended use of a structure, and where the body of the claim does not depend on the preamble for completeness but, instead, the process steps or structural limitations are able to stand alone. See *In re Hirao*, 535 F.2d 67, 190 USPQ 15 (CCPA 1976) and *Kropa v. Robie*, 187 F.2d 150, 152, 88 USPQ 478, 481 (CCPA 1951).

Response to Arguments

8. The art rejections over Luciano have been maintained for the following reasons. Applicant contends that Luciano does not teach or suggest the fibers embedded in the foam layer in a shape of a truss. The examiner respectfully disagrees. Luciano uses the same need punching to penetrate the fibers into the foam layer as Applicant, therefore, it is not seen that the fibers could not have been embedded in the foam layer in a shape of a truss as set forth in the claims. Alternatively, truss as defined by Merriam Webster's Collegiate dictionary is "an assemblage of members (as beams) forming a rigid framework." The fibers 24 extending through the foam layer 24, intermingling to each other forming a framework with a plurality of triangles randomly interconnected to each other (figure 2). As the simplest form of a truss is one single triangle, it is the examiner's position that the disclosure of Luciano contemplates the fibers embedded in the foam layer in a shape of a truss as well. Applicant further avers that the foam layer in Luciano are composed of discrete foam particles. This is

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totally different from the foam layer of the present invention. The arguments are not found convincing for patentability because nothing in the claim requires the foam layer not formed from discrete foam particles. In addition, Applicant argues that Schuster fails to disclose adhesive layers formed on both sides of the automobile interior material. That is not true. The adhesive penetrates into the interior surface and forms on both exterior surfaces of the web (see abstract of Schuster). Likewise, the adhesive in Schuster is formed both sides of the web. It is noted that the claim does not exclude the adhesive layer penetrating into the interior surface of the automobile interior material. Accordingly, the art rejections are sustained.

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Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hai Vo whose telephone number is (571) 272-1485. The examiner can normally be reached on Monday through Thursday, from 9:00 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rena Dye can be reached on (571) 272-3186. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Hai Vo/ Primary Examiner, Art Unit 1794